Fig. 1.

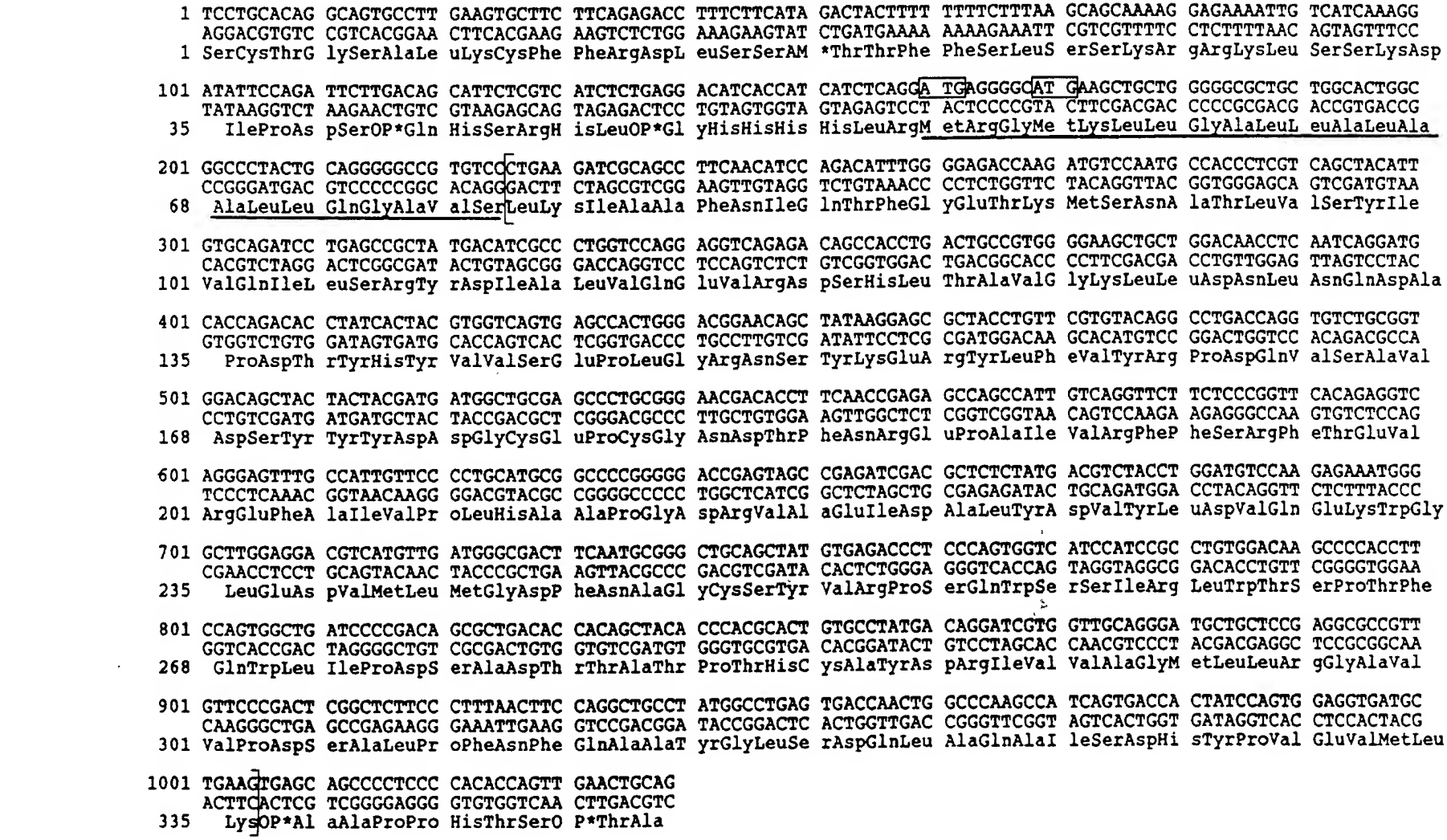

Fig. 2.

```
                  10        20        30        40        50
hDNase    LKIAAFNIQTFGETKMSNATLVSYIVQILSRYDIALVQEVRDSHLTAVGK
          ********.************ ****.*. **** *...****** ****
bDNase    LKIAAFNIRTFGETKMSNATLASYIVRIVRRYDIVLIEQVRDSHLVAVGK
                  10        20        30        40        50

                  60        70        80        90       100
hDNase    LLDNLNQDAPDTYHYVVSEPLGRNSYKERYLFVYRPDQVSAVDSYYYDDG
          *** **** *.*********************..**..** .*.* ****
bDNase    LLDYLNQDDPNTYHYVVSEPLGRNSYKERYLFLFRPNKVSVLDTYQYDDG
                  60        70        80        90       100

                 110       120       130       140       150
hDNase    CEPCGNDTFNREPAIVRFFSRFTEVREFAIVPLHAAPGDRVAEIDALYDV
          **.****.*.****.*.* *. * *.*****.**.**.* ****..****
bDNase    CESCGNDSFSREPAVVKFSSHSTKVKEFAIVALHSAPSDAVAEINSLYDV
                 110       120       130       140       150

                 160       170       180       190       200
hDNase    YLDVQEKWGLEDVMLMGDFNAGCSYVRPSQWSSIRLWTSPTFQWLIPDSA
          *****.** *.**********.**** .********.**.**********
bDNase    YLDVQQKWHLNDVMLMGDFNADCSYVTSSQWSSIRLRTSSTFQWLIPDSA
                 160       170       180       190       200

                 210       220       230       240       250
hDNase    DTTATPTHCAYDRIVVAGMLLRGAVVPDSALPFNFQAAYGLSDQLAQAIS
          *****.*.********** **...**  ** **.********...* ***
bDNase    DTTATSTNCAYDRIVVAGSLLQSSVVGPSAAPFDFQAAYGLSNEMALAIS
                 210       220       230       240       250

                 260
hDNase    DHYPVEVMLK
          ******* *
bDNase    DHYPVEVTLT
                 260
```

Fig. 3.

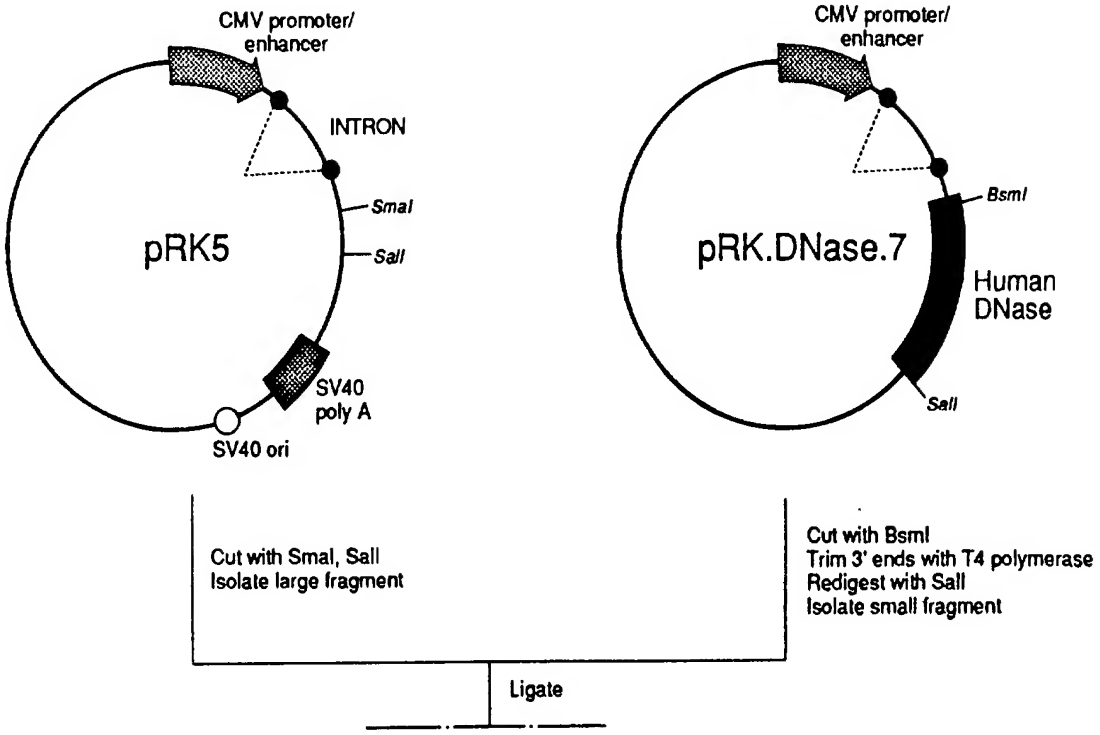

Fig.3(cont.)

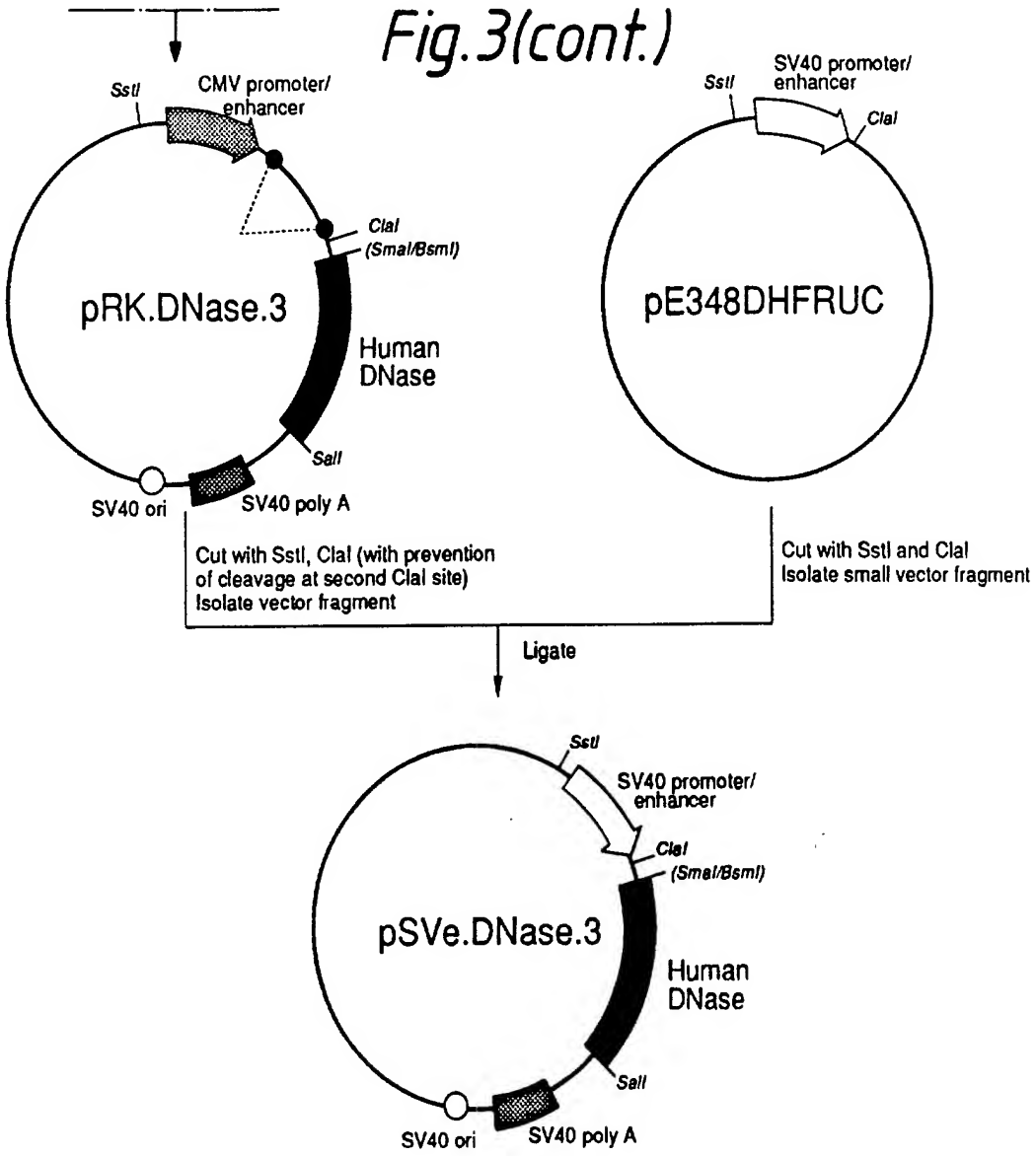

Fig. 4.

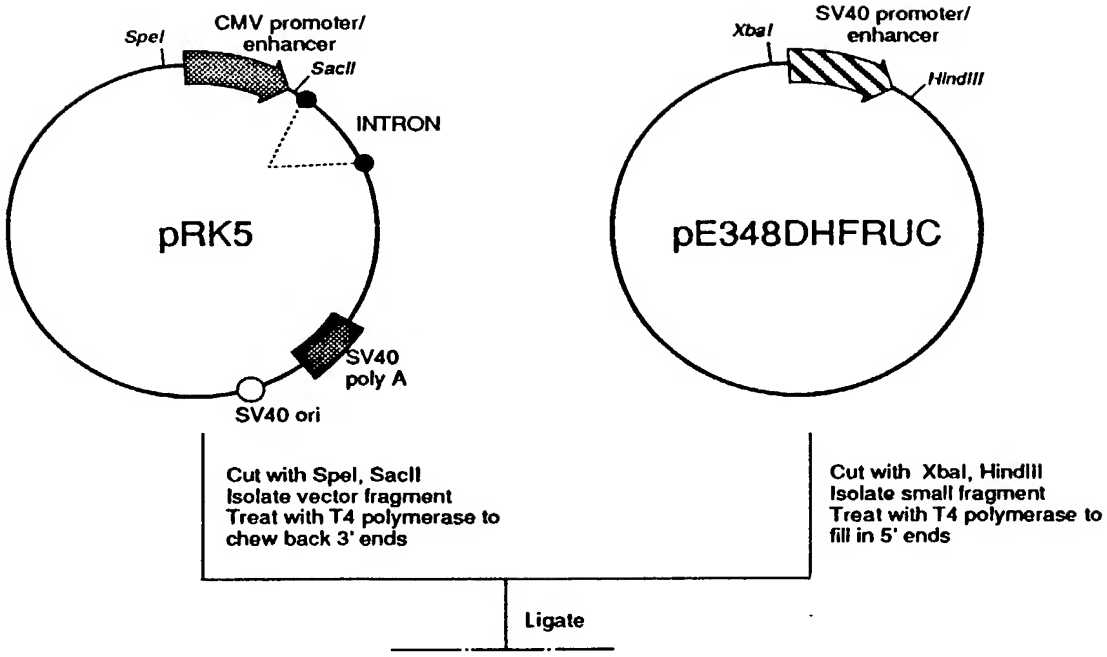

Fig. 4 (cont.)

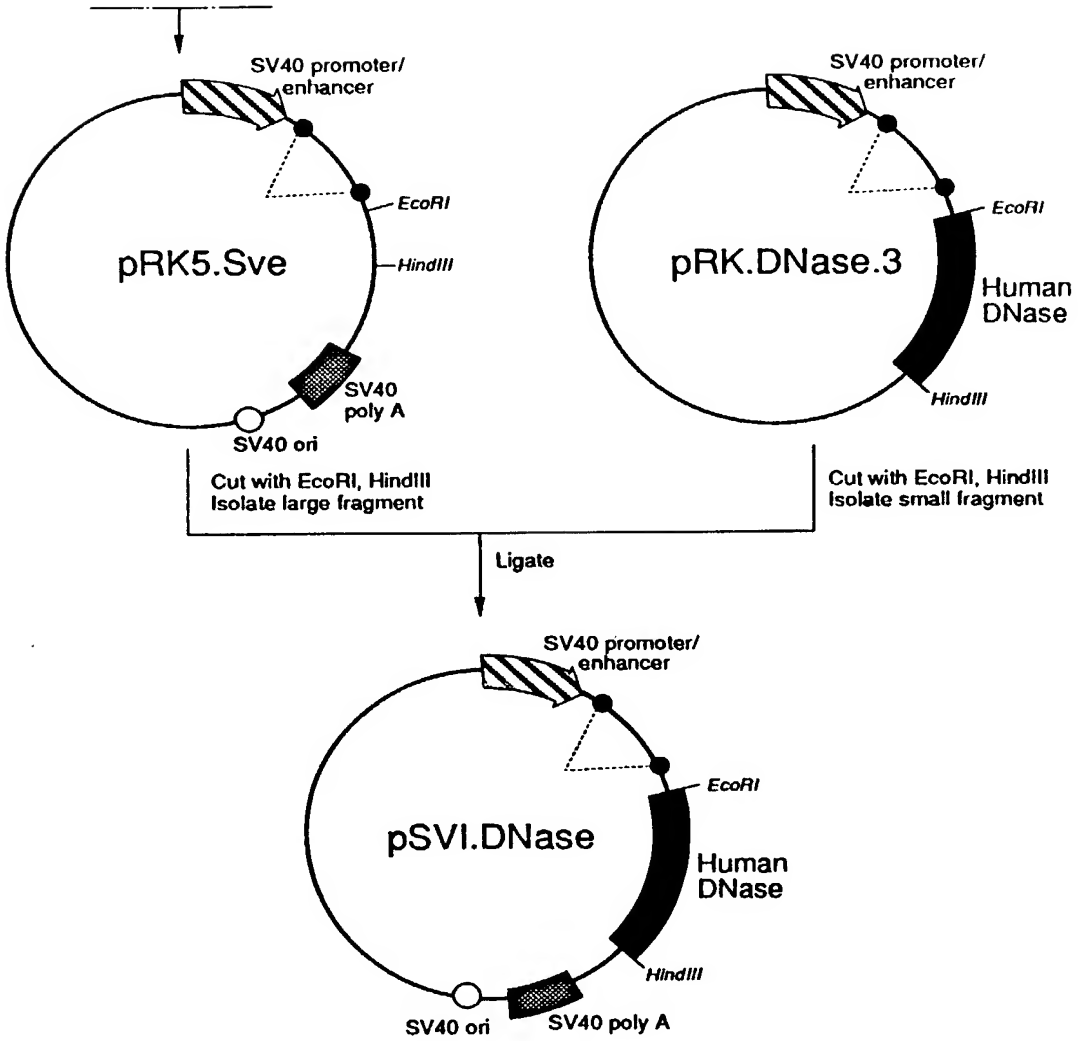

Fig. 5.

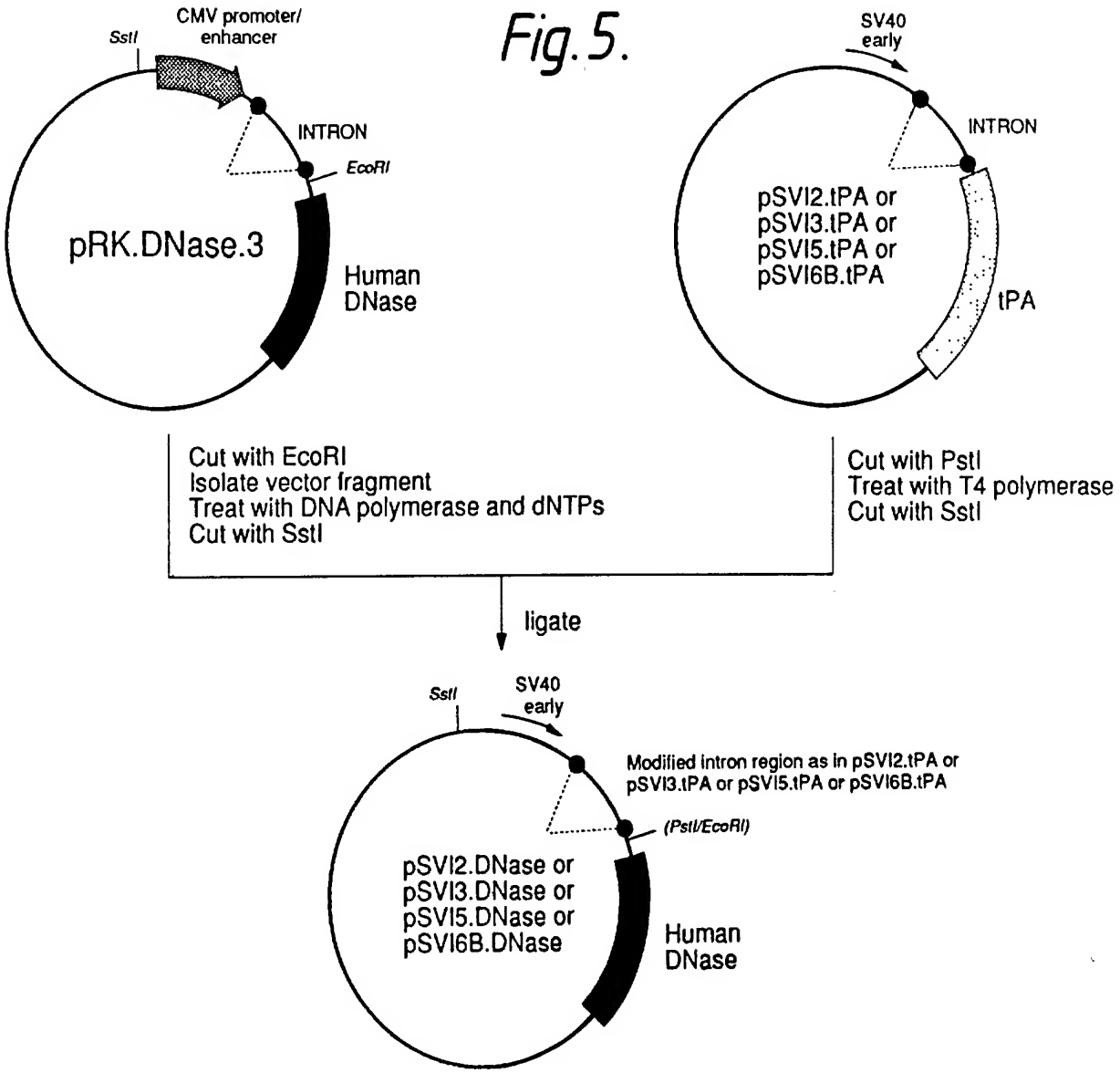

Fig.6.

Fig.6(cont.)

```
                                                                                                                    sau96I
                                                                                                                    avaII
                                                                                                                    asuI
                                                                                                                 scrFI
                                                                                                                 ecoRII
    mseI                                        hphI                fokI                                         bstNI
                      note ATG                                      sp6 RNA start
501 TTAATACATA ACCTTATGTA TCATACACAT ACGATTTAGG TGACACTATA GAATAACATC CACTTTGCCT TTCTCTCCAC AGGTGTCCAC TCCCAGGTCC
    AATTATGTAT TGGAATACAT AGTATGTGTA TGCTAAATCC ACTGTGATAT CTTATTGTAG GTGAAACGGA AAGAGAGGTG TCCACAGGTG AGGGTCCAGG

                                  bspMI
                        aluI      pstI
                      hindIII   fnu4HI
          mnlI      ddeI        bbvI                  mseI    hgaI
  1
          cloning linker
601 AACTGCACCT CGGTTCTAAG CTTGGGCTGC AGGTCGCCGT GAATTTAAGG GACGCTGTGA AGCA
    TTGACGTGGA GCCAAGATTC GAACCCGACG TCCAGCGGCA CTTAAATTCC CTGCGACACT TCGT
```

Fig.7.

Fig. 7 (cont.)

```
                                                                                                                    sau96I
                                                                                                                    avaII
                                                                                                                    asuI
                                                                                                                 scrFI
                                                                                                                 ecoRII
    mseI                                          hphI                fokI                                       bstNI
                      note ATG                                        sp6 RNA start
501 TTAATACATA ACCTTATGTA TCATACACAT ACGATTTAGG TGACACTATA GAATAACATC CACTTTGCCT TTCTCTCCAC AGGTGTCCAC TCCCAGGTCC
    AATTATGTAT TGGAATACAT AGTATGTGTA TGCTAAATCC ACTGTGATAT CTTATTGTAG GTGAAACGGA AAGAGAGGTG TCCACAGGTG AGGGTCCAGG

                                  bspMI
                        aluI      pstI
                      hindIII   fnu4HI
          mnlI      ddeI        bbvI                 mseI    hgaI
  1
          cloning linker
601 AACTGCACCT CGGTTCTAAG CTTGGGCTGC AGGTCGCCGT GAATTTAAGG GACGCTGTGA AGCA
    TTGACGTGGA GCCAAGATTC GAACCCGACG TCCAGCGGCA CTTAAATTCC CTGCGACACT TCGT
```

Fig. 8.

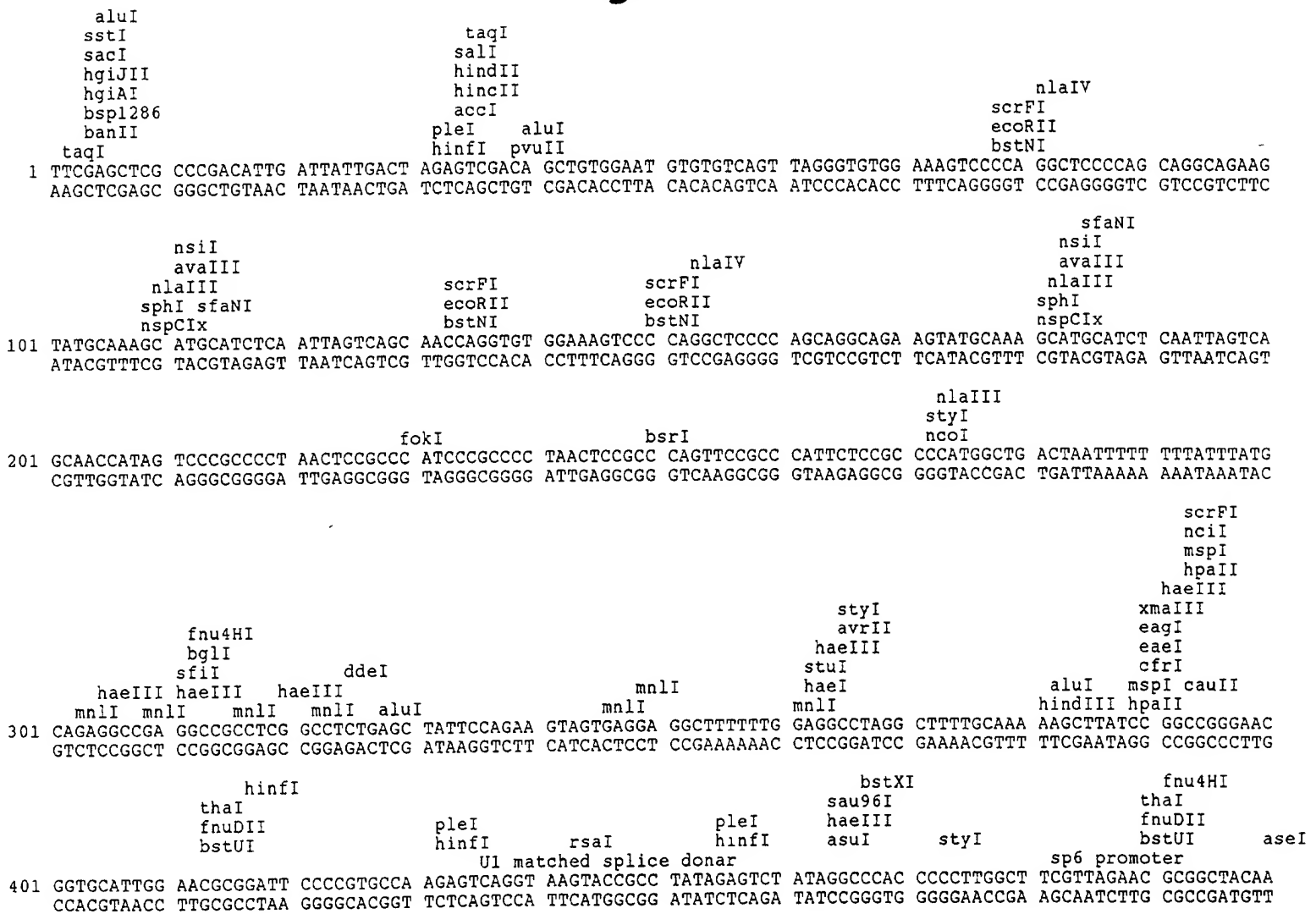

Fig.8(cont.)

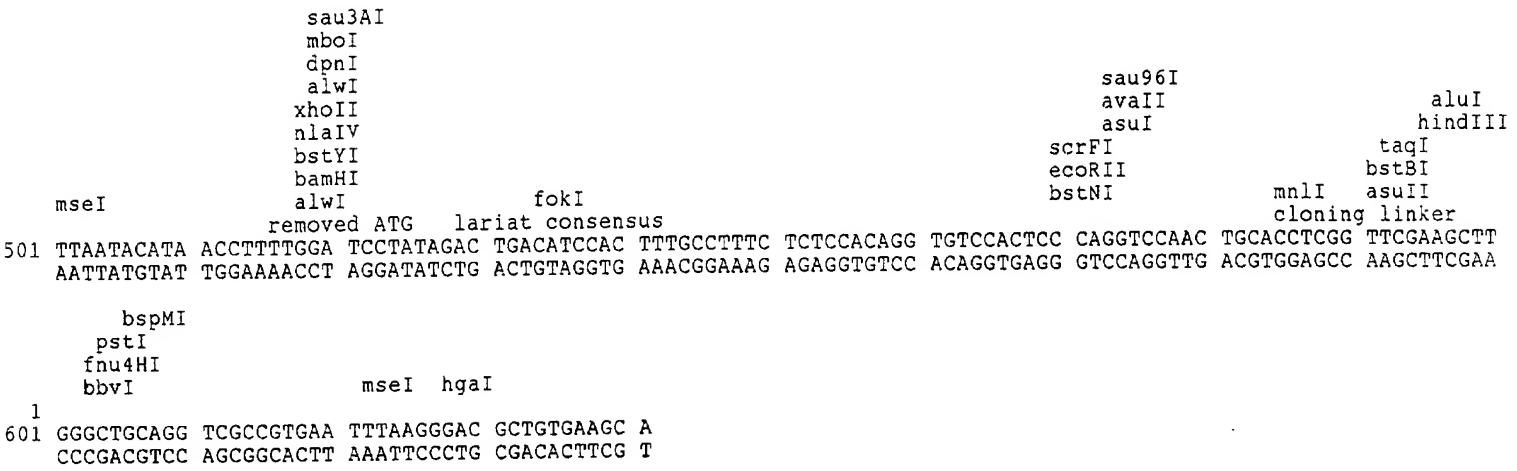

Fig. 9.

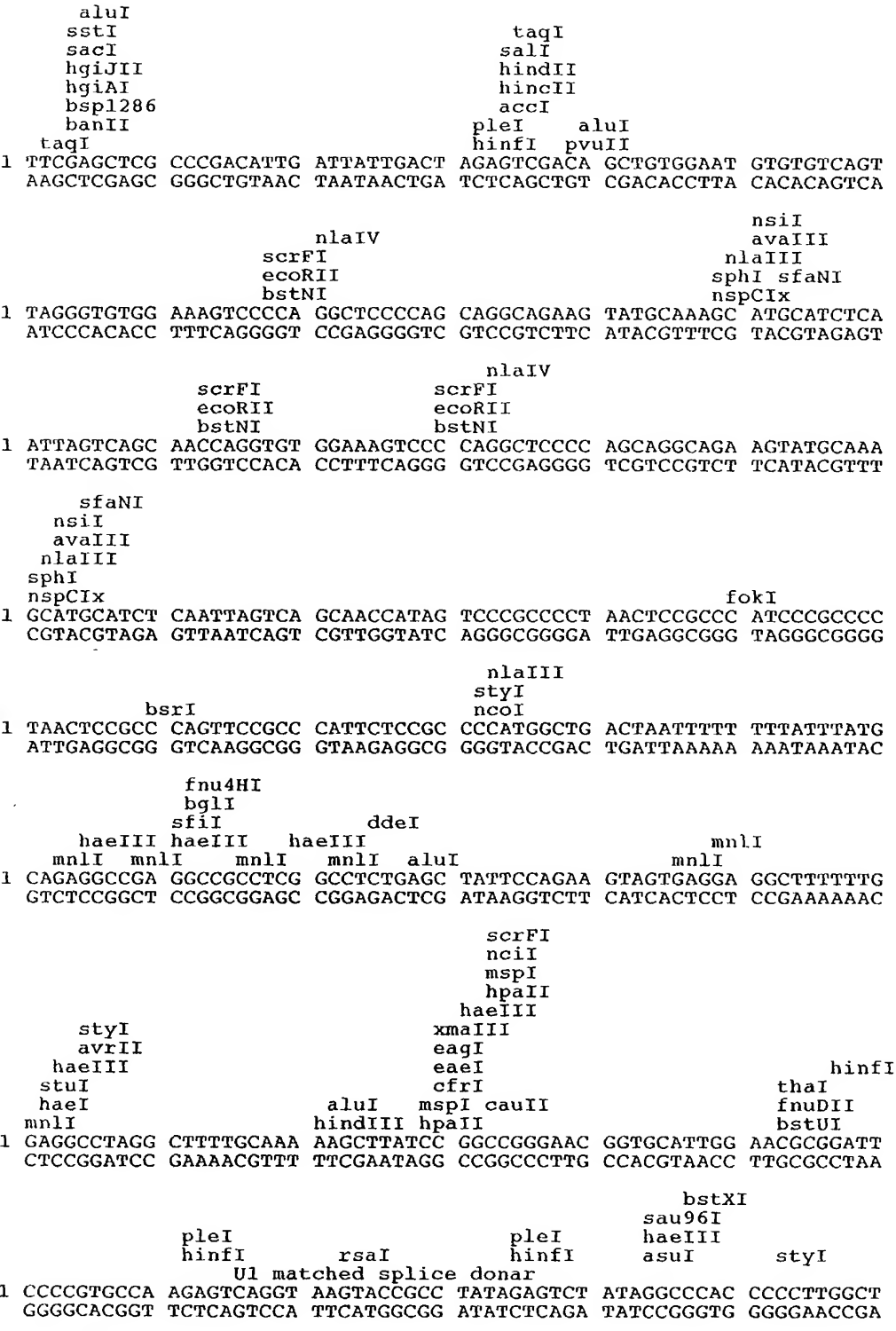

Fig. 9(cont.)

```
                                                    sau3AI
                                                    mboI
                                                    dpnI
                                                    alwI
                                                   xhoII
                fnu4HI                             nlaIV
               thaI                                bstYI
               fnuDII          mseI                bamHI
               bstUI          aseI                 alwI
     sp6 promoter                                removed ATG
                                                              U2 match lariat consensus
481  TCGTTAGAAC GCGGCTACAA TTAATACATA ACCTTTTGGA TCCTACTAAC TACTGACTTA
     AGCAATCTTG CGCCGATGTT AATTATGTAT TGGAAAACCT AGGATGATTG ATGACTGAAT

                                        sau96I
                                        avaII
                                        asuI                      thaI
                                   scrFI                          fnuDII
                                   ecoRII                         bstUI
                                   bstNI                mnlI    nruI hindIII
                                                        cloning linker
541  TTCTTTTCCT TTCTCTCCAC AGGTGTCCAC TCCCAGGTCC AACTGCACCT CGGTTCGCGA
     AAGAAAAGGA AAGAGAGGTG TCCACAGGTG AGGGTCCAGG TTGACGTGGA GCCAAGCGCT

               bspMI
             pstI
            fnu4HI
     aluI   bbvI                  mseI   hgaI
   1
601  AGCTTGGGCT GCAGGTCGCC GTGAATTTAA GGGACGCTGT GAAGCA
     TCGAACCCGA CGTCCAGCGG CACTTAAATT CCCTGCGACA CTTCGT
```

Fig. 10.

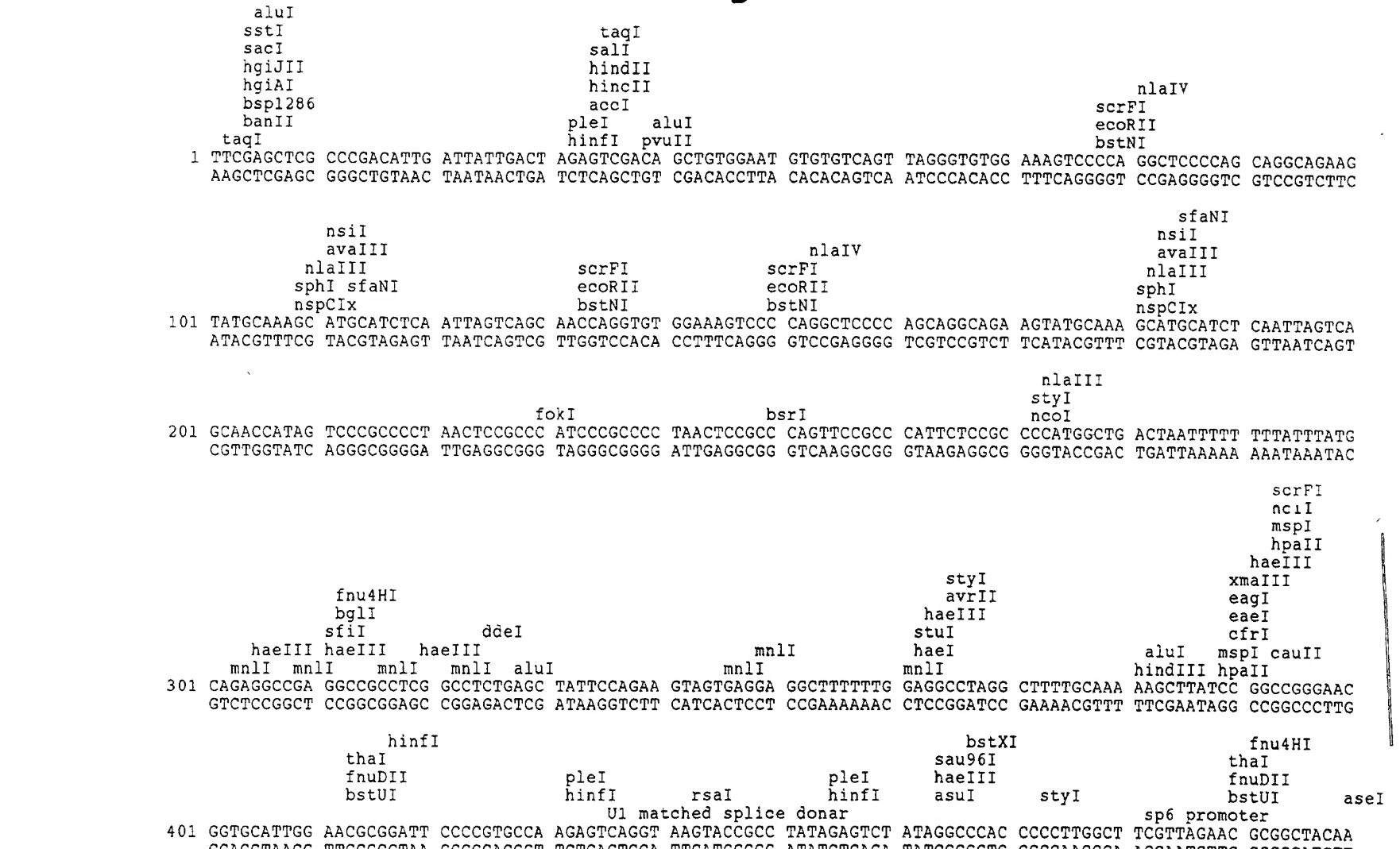

Fig. 10(cont.)

```
                      sau3AI
                      mboI
                      dpnI
                      alwI                                                    sau96I
                     xhoII                                                    avaII
                     nlaIV                                                    asuI                thaI aluI
                     bstYI                                                 scrFI                  fnuDII
                     bamHI                                                 ecoRII                 bstUI
   mseI              alwI                fokI                              bstNI          mnlI    nruI hindIII
                    removed ATG
                            U2 match
                                    lariat consensus
                                      IgG vH natural lariat restored                                cloning linker
501 TTAATACATA ACCTTTTGGA TCCTACTGAC ACTGACATCC ACTTTTTCTT TTTCTCCACA GGTGTCCACT CCCAGGTCCA ACTGCACCTC GGTTCGCGAA
    AATTATGTAT TGGAAAACCT AGGATGACTG TGACTGTAGG TGAAAAAGAA AAAGAGGTGT CCACAGGTGA GGGTCCAGGT TGACGTGGAG CCAAGCGCTT

          bspMI
         pstI
        fnu4HI
        bbvI                mseI   hgaI
  1
601 GCTTGGGCTG CAGGTCGCCG TGAATTTAAG GGACGCTGTG AAGCA
    CGAACCCGAC GTCCAGCGGC ACTTAAATTC CCTGCGACAC TTCGT
```

Fig. 11.